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INFORMATION REPORT INFORMATION REPORT

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10, 0.5.0.	rial contains information affecting the National Defense of the Uni Secs. 793 and 794, the transmission or revelation of which in an S-E-C-R-E-T	50X1-HUM PROCESSING COPY
COUNTRY	Hungary	REPORT
SUBJECT	24-Channel Telegraphic Communication System	DATE DISTR. 21 MAR 1988
		REFERENCES RD 50X1-HUM
DATE OF INFO. PLACE & DATE ACQ		
DATE ACQ	SOURCE EVALUATIONS ARE DEFINITIVE. APPL	RAISAL OF CONTENT IS TENTATIVE. 50X1-HUM
,		report consisting of a description
ſ	Equipment Works) in Budapest. This equality alternating-current telegraphic signal than the state of the report includes the	uipment makes it possible to transmit nals simultaneously on an ordinary
Г	end of a channel and the other the redu	the process shown in the first sketch. consignment of the 24-channel alternat- at the end of December 1957.
	end of a channel and the other the reduline, which is done by the reverse of	the process shown in the first sketch. consignment of the 24-channel alternat-
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HUNGARY

Scientific

The 24-Channel Telegraphic Communication

System.

The following is a short description of the 24-channel alternating-current telegraphic communication Hiradatechnikai Gyan set manufactured by the BELOIANNISZ Communications Equipment Works at BUDAPEST.

- ı. This equipment makes it possible to transmit 24 alternating-current telegraphic signals simultaneously on an ordinary telephone line..
- As the entire frequency range of the 24 channels 2. lies within the frequency range of a normal telephone network, this makes it possible to transmit the entire frequency band of the 24-channel alternating-current telegraphic system through a single channel of a multichannel telephone network (when use is made, for instance, of a multi-channel telephone system).
- This set was originally designed for a 12-channel 3. telephone exchange manufactured by the BELOIANNISZ Communications Equipment Weaks, but it can be used for other, similar multi-channel telephone exchanges.

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- 4. The attached diagrammatic sketch No. 1 (Appendix A) shows the transmitting end of a channel. No.2 (Appendix B) shows the reduction of the signal coming from the line, which is done by the inverse of the process described on sketch No.1.
- 5. The dotted frame on both sketches shows the parts which can be found in the equipment for every single channel. In other words the framed part is the channel itself.
- The voltages at the modulation and at the output stages are identical with the voltages used by carrier frequency transmissions.
- 7. The BELOIANNISZ Communications Equipment Works was to export the first consignment of the 24-channel alternating-current telegraphic sets described above at the end of December 1957 (to PCLARD).

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APPENDIX "A"

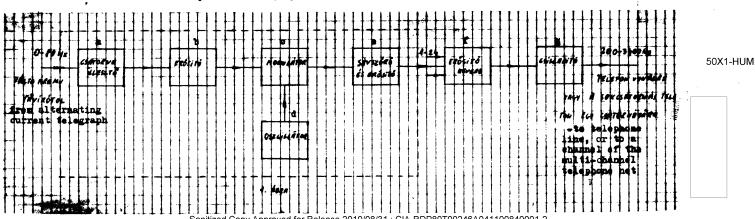
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DIAGRAMMATIC SKETCH NO.1

- CHANNEL ADJUSTER: Adjusts the actual telegraphic equipment to the single change
- AMPLIFIER: Low frequency amplifier with a transformer output.
- Ring modulator (carled) generally used in the telephone indust diodes used were imported from abroad.

Actin 52

- OSCILLATOR: An oscillator of Hartley circuit. There is no possibility to compensate the frequency flutter. The oscillator (type) recures the frequency stability. The frequencies of the oscillators of the single channels are at a distance of 120-140 Hz from each other. This frequency distance determines the distance between the channels. The frequency of the frequency of
- BAND FILTER and AMPLIFIER: Suppresses the upper side-band created by modulation and the carrier frequency. The amplifier is a voltage amplifier of normal circuit.
- For joining the single telegraphic channels. The amplifier eliminates we eventual differences in level.
- ATTENUATION DEVICE: Built of resistances, which can be switched by periodic settings; impedance 600 A; symmetrical, used for adjusting and level setting.



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APPENDIX "B"

DIAGRAMMATIU UKETUH NO.2

